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GLUCOSE PREPARATION AND ITS PRODUCTION

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Inventor(s): SATO TAKU
Applicant(s):: SHIMIZU SEIYAKU KK
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Abstract

PURPOSE: To obtain a glucose preparation useful as transfusion or peritoneal dialysis fluid free from formation of 3-deoxyglucosone by adding cysteine in thermal sterilization stage.

CONSTITUTION: Glucose or a glucose-containing agent is incorporated with 0.7-10% (especially 5-7%) cysteine based on the glucose, adjusted to pH 2-8 (preferably 2.5-6) and subjected to high-pressure steam sterilization to obtain a glucose preparation free from 3-deoxyglucosone which is a decomposition product of glucose. Since the preparation is free from 3-deoxyglucosone, it gives a transfusion free from the danger of phlebitis and thrombophlebitis and a peritoneal dialysis fluid capable of keeping the dialyzing effect over a long period.

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